

Overview: Standard Library

- `./julia (repl.c)`
 - getopt parsing
 - loads the standard library
- `libjulia.so` (or `.dll` or `.dylib`)
 - Garbage Collector / Allocator
 - Builtin Functions / Ininsics
 - Interpreter
 - Builtin Types
 - Type System
 - Dispatch System
 - Compiler
 - Platform abstraction / integration
 - System Image / serializer
- `sys.so` (and other `lib/julia/` files `*.so` and `*.ji`)
 - Core module
 - Inference module
 - Base module
- Packages
- Dependencies
 - LLVM, BLAS, libgit2, etc.

Minimal 'main(void)'

```
// This file (repl.c) is a part of Julia. License is MIT: http://julialang.org/license

// Standard headers
#include <string.h>
#include <stdint.h>
// Julia headers (for initialization and gc commands)
#include "uv.h"
#include "julia.h"

int main(int argc, char *argv[])
{
    // Initialize Julia
    uv_setup_args(argc, argv);
    libsupport_init();
    // Setup any runtime options here
    jl_options.fast_math = JL_OPTIONS_FAST_MATH_OFF; // --math-mode=ieee
    julia_init(JL_IMAGE_JULIA_HOME);
    // Run the REPL
    jl_function_t *start_client = (jl_function_t*)jl_get_global(jl_base_module, jl_symbol("_start"));
    (void)jl_apply(&start_client, 1);
    // Cleanup and graceful exit
    jl_atexit_hook(0);
    return 0;
}
```